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- To examine changes in patient-reported symptoms that are associated with sodium/fluid excess after switching from high-sodium oxybate (SXB) to low-sodium oxybate (LXB)

- A meaningful proportion of participants with narcolepsy reported qualitative improvements in edema, diaphoresis, and nocturia after switching from SXB to LXB
 - 73% of participants reported improvement in at least 1 of these symptoms
- A limitation of this study is the small sample size, with few participants reporting severe baseline symptoms, which reduces the ability to detect potential changes
- In addition to the previously reported reduction in 24-hour ambulatory systolic BP and urine sodium excretion after participants switched from SXB to LXB, these patient-reported symptom improvements underscore broader clinical benefits of lowering sodium exposure, including relief of symptoms that may be bothersome or clinically meaningful to individuals with narcolepsy

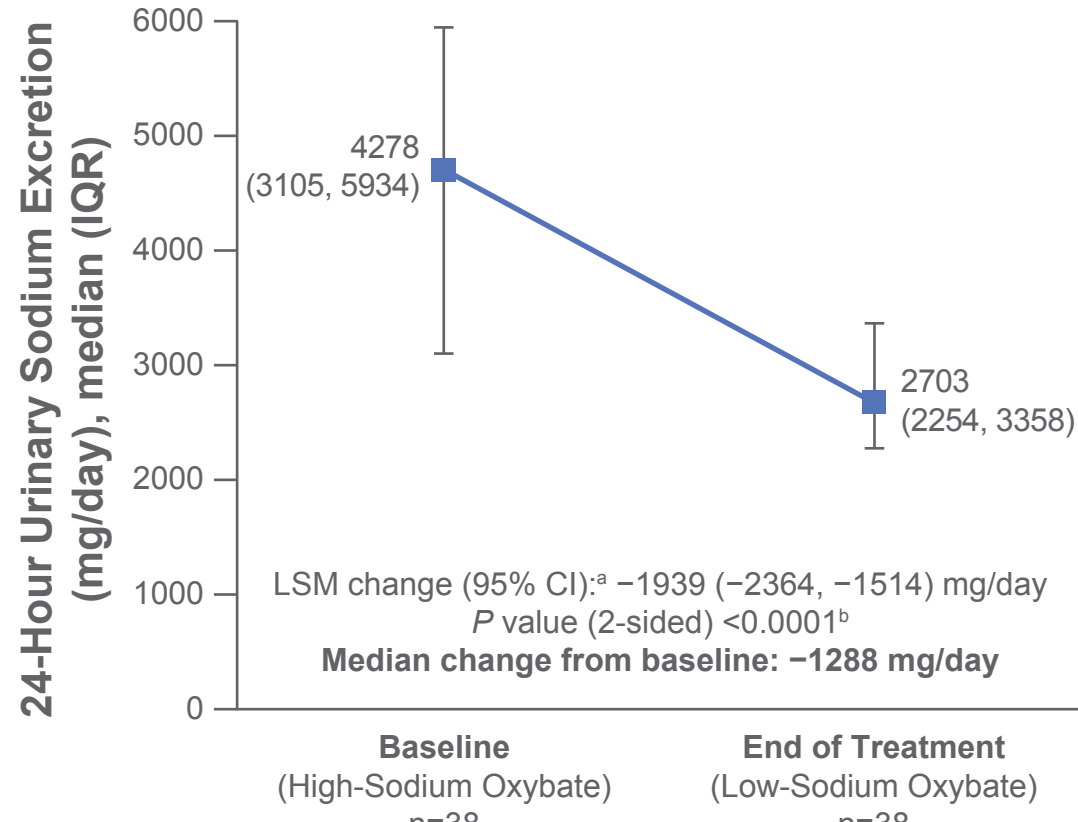
Disclosures: **VK Somers** is a consultant for Apolimed, GEM Health, Jazz Pharmaceuticals, and Lilly, and serves on the Sleep Number Scientific Advisory Board. **Y Dautaviers** is a consultant for and has participated in advisory boards for Avadel, Biogen, Centessa, Harmony Biosciences, Idorsia, Jazz Pharmaceuticals, and Takeda. **DA Nichols**, **SC Markt**, **C Baranak**, **J Dai**, **TJ Measey**, and **M Whalen** are full-time employees of Jazz Pharmaceuticals who, in the course of this employment, have received stock options exercisable for, and other stock awards of, ordinary shares of Jazz Pharmaceuticals, c/o. **WB White** is a cardiovascular safety consultant to Jazz Pharmaceuticals.

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- Excess sodium intake is associated with elevated blood pressure (BP) and a higher risk of adverse cardiovascular outcomes.¹ Because individuals with narcolepsy are at increased risk of developing hypertension and adverse cardiovascular outcomes,² use of high-sodium containing medications may further increase this risk?
- In the XYLO study (NCT05869773), participants with narcolepsy who switched from treatment with SXB to LXB reduced their daily medication-related sodium intake by a mean (SD) of 1338.8 (190.7) mg, which was paralleled by a median reduction in 24-hour urinary sodium of 1288 mg/day and clinically meaningful reductions (least squares mean change [95% CI]) in 24-hour ambulatory systolic BP of -4.1 (-6.9, -1.4) mmHg³

Medication-Related Exposure	Baseline (High-Sodium Oxylate)	End of Treatment (Low-Sodium Oxylate)
n	43	43
Dosage, mean (SD)	8.0 (1.1) g/night	8.1 (1.1) g/night
Sodium content, mean (SD)	1456.5 (26.2) mg	117.8 (16.3) mg
Difference in sodium content of medication, mean (SD)	1338.8 (190.7) mg	
24-Hour Ambulatory Systolic Blood Pressure	Baseline (High-Sodium Oxylate)	End of Treatment (Low-Sodium Oxylate)
Mean (SE)	132.3 (1.8) mmHg	128.2 (2.1) mmHg
Least-squares mean change (95% CI); 1-sided P value	-4.1 (-6.9, -1.4) mmHg; P=0.0019	



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 *Baseline-adjusted change from baseline (on high-sodium oxybate) to end of treatment (on low-sodium oxybate). ^aP value is nominal.
 CI, confidence interval; IQR, interquartile range; LSM, least squares mean; LXB, low-sodium oxybate; SD, standard deviation; SXH, high-sodium oxybate.

- Alteration of sodium homeostasis by excess sodium intake may contribute to the development of other clinical events, such as edema,⁵ nocturia,⁶ and diaphoresis⁷

- XYLO was a multicenter, single-arm, open-label study in people aged 18 to 70 years with narcolepsy type 1 or 2 and office BP 130 to 155/≤95 mmHg^a
 - Additional details on the study design can be found in the Supplement, accessed via the QR code and/or in the published article by White et al⁴
- This analysis evaluates exploratory endpoint change from baseline to end of treatment (EOT) on the Patient Global Impression of Severity (PGI-S) and change at EOT on the Patient Global Impression of Change (PGI-C) to assess the impact of switching from SXB to LXB on edema, diaphoresis, and nocturia; enuresis was not analyzed because no participants reported it at baseline

Screening Period (2 weeks with 1-week extension if needed)

Screening

V1 PGI-S

Initial Screening

Final Screening

High-Sodium Oxybate

Up to 3 weeks

Intervention Period (Low-Sodium Oxybate)

Treatment

V2 V3 V4 V5 V6

Switch (1-day switch Sodium Oxybate)

Stable Treatment

Study Intervention (Low-Sodium Oxybate)

Approximately 6 weeks

End of Treatment

V7 PGI-S, PGI-C

End-of-Treatment Visit

Safety Follow-up

Safety

V8

Safety Follow-Up Visit

2 weeks after last dose of study intervention

Patients With Narcolepsy Type 1 or 2

Hybrid enrolment permits on-site or decentralized (at-home) participation

24-hour BP using ambulatory monitor

24-hour urine collection

Patient-reported symptoms

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BP, blood pressure; PGI-C, Patient Global Impression of Change; PGI-S, Patient Global Impression of Severity; V, visit.

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Characteristic	NT1 (n=19)	NT2 (n=18)	Total (N=37)
Age, mean (SD), years	46.1 (11.5)	44.4 (11.9)	45.2 (11.5)
Sex at birth, n (%) Male Female			
Race, n (%) Asian Black or African American White Unknown			
BMI, kg/m ² , mean (SD)			
Office seated BP, mmHg, mean (SD) Systolic Diastolic			
Concomitant medications, n (%) Antihypertensives ^b Alerting agents	7 (36.8) 16 (84.2)	6 (33.3) 14 (77.8)	13 (35.1) 30 (81.1)
Total baseline high-sodium oxybate dosage, g/night; mean (SD)	8.1 (1.2)	8.2 (1.0)	8.2 (1.1)
Relevant comorbidities, n (%) Sleep apnea Dyslipidemia Obesity Diabetes	5 (26.3) 4 (21.1) 5 (26.3) 1 (5.3)	5 (27.8) 4 (22.2) 1 (5.6) 1 (5.6)	10 (27.0) 8 (21.6) 6 (16.2) 2 (5.4)

Subset of the 43 IA participants who completed the 6-week EOT visit, had a qualifying 24-hour BP recording, and had both baseline and EOT PGI-S data. *The specific antihypertensives and proportion of participants on 1 or multiple antihypertensive(s) can be found in the Supplement, accessed via the QR code.

A) Edema

Stacked bar chart showing the percentage of participants reporting improvement in edema across three groups: Overall (N=37), Narcolepsy Type 1 (n=19), and Narcolepsy Type 2 (n=18). The y-axis represents the percentage of participants (0 to 100%). The legend indicates six levels of improvement: Very much improved (dark blue), Much improved (medium blue), Minimally improved (light blue), No change (grey), Minimally worse (light purple), Much worse (medium purple), and Very much worse (dark purple). Brackets on the right of each bar indicate the total percentage of improvement (Very much improved + Much improved + Minimally improved).

Group	Very much improved	Much improved	Minimally improved	No change	Minimally worse	Much worse	Very much worse	Total Improvement
Overall (N=37)	10.8	5.4	16.2	67.6	0	0	0	32.4%
Narcolepsy Type 1 (n=19)	15.8	26.3	0	57.9	0	0	0	42.1%
Narcolepsy Type 2 (n=18)	5.6	11.1	5.6	77.8	0	0	0	22.2%

B) Diaphoresis

Stacked bar chart showing the percentage of participants reporting improvement in diaphoresis across three groups: Overall (N=37), Narcolepsy Type 1 (n=19), and Narcolepsy Type 2 (n=18). The y-axis represents the percentage of participants (0 to 100%). The legend indicates six levels of improvement: Very much improved (dark blue), Much improved (medium blue), Minimally improved (light blue), No change (grey), Minimally worse (light purple), Much worse (medium purple), and Very much worse (dark purple). Brackets on the right of each bar indicate the total percentage of improvement (Very much improved + Much improved + Minimally improved).

Group	Very much improved	Much improved	Minimally improved	No change	Minimally worse	Much worse	Very much worse	Total Improvement
Overall (N=37)	8.1	10.8	10.8	70.3	0	0	0	29.7%
Narcolepsy Type 1 (n=19)	5.3	15.8	21.1	57.9	0	0	0	42.1%
Narcolepsy Type 2 (n=18)	11.1	5.6	0	83.3	0	0	0	16.7%

C) Nocturia

Stacked bar chart showing the percentage of participants reporting improvement in nocturia across three groups: Overall (N=37), Narcolepsy Type 1 (n=19), and Narcolepsy Type 2 (n=18). The y-axis represents the percentage of participants (0 to 100%). The legend indicates six levels of improvement: Very much improved (dark blue), Much improved (medium blue), Minimally improved (light blue), No change (grey), Minimally worse (light purple), Much worse (medium purple), and Very much worse (dark purple). Brackets on the right of each bar indicate the total percentage of improvement (Very much improved + Much improved + Minimally improved).

Group	Very much improved	Much improved	Minimally improved	No change	Minimally worse	Much worse	Very much worse	Total Improvement
Overall (N=37)	13.5	21.6	59.5	5.4	0	0	0	35.1%
Narcolepsy Type 1 (n=19)	21.1	21.1	57.9	0	0	0	0	42.1%
Narcolepsy Type 2 (n=18)	5.6	22.2	61.1	11.1	0	0	0	27.8%

PGI-C, Patient Global Impression of Change.

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Changes in Patient-Reported Symptoms After Switching From High- to Low-Sodium Oxybate in Participants With Narcolepsy in the XYLO Study

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Supplemental Methods

Supplemental Figure S1. Key Enrollment Eligibility Criteria



Inclusion Criteria

- 18–70 years of age with documented diagnosis of narcolepsy type 1 or 2
- Taking **twice-nightly SXB 6–9 g/night for ≥6 weeks** before screening
- Patients using antihypertensives, stimulants, and/or alerting agents or other medications known to affect BP at study entry were required remain at the same doses throughout the study unless advised otherwise due to safety concerns
- Average screening office SBP (3 measures at 1-minute intervals) between **130–155 mmHg (inclusive)**
- Average screening office DBP (3 measures at 1-minute intervals) **≤95 mmHg**

Dietary salt was not monitored or restricted; participants were asked to maintain consistent sleeping and dietary habits and exercise regimens. ^aDefined as requiring ≥4 antihypertensive medications for BP control or uncontrolled BP with 3 or more antihypertensive medications of different classes that include a diuretic.
BP, blood pressure; DBP, diastolic blood pressure; min, minute; SBP, systolic blood pressure; SXB, high-sodium oxybate.



Exclusion Criteria

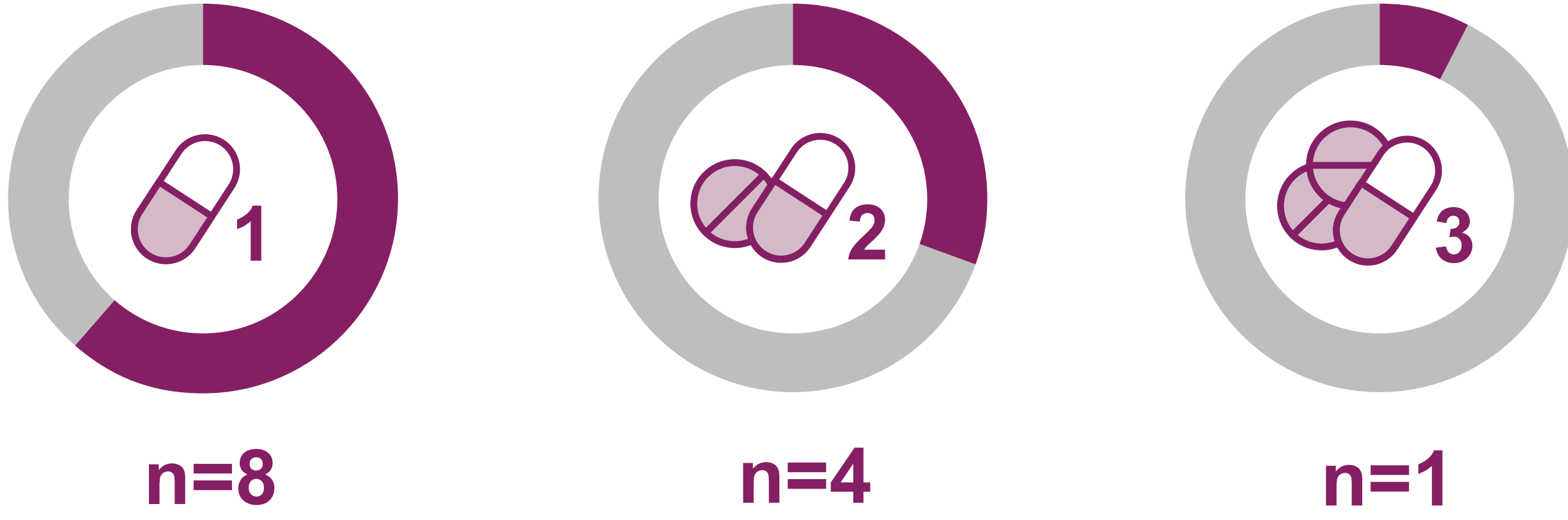
- History of treatment-resistant hypertension^a
- History or presence of an acutely unstable medical condition, behavioral or psychiatric disorder, or surgical history that could affect participant safety or interfere with study assessments or participation
- Presence of significant cardiovascular disease, atrial fibrillation, or renal impairment (estimated glomerular filtration rate <45 mL/min)
- Occupation requiring nighttime or variable shift work

Supplemental Results

Supplemental Table S1. Use of Antihypertensive Medications in ≥1 Participant (n=13/37 [35.1%])

Medication, n (%)	Total (N=37)
Participants taking concomitant antihypertensives	13 (35.1)
Lisinopril	4 (10.8)
Metoprolol	4 (10.8)
Amlodipine	2 (5.4)
Hydrochlorothiazide	2 (5.4)
Losartan	2 (5.4)
Benicar (Olmesartan)	1 (2.7)
Spironolactone	1 (2.7)
Toprol	1 (2.7)
Verapamil	1 (2.7)
Zestoretic	1 (2.7)

Supplemental Figure S2. Number of Antihypertensive Medications Used at Baseline Among Those Taking Antihypertensive Medications at Baseline



- Of the 13 (35.1% of the analysis population) participants taking antihypertensives at baseline, 8 (61.5%), 4 (30.8%), and 1 (7.7%) were taking 1, 2, and 3 antihypertensives, respectively

